



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

November 7, 2017

MEMORANDUM TO: Anthony Hsia, Deputy Director
Division of Spent Fuel Management
Office of Nuclear Material Safety
and Safeguards

FROM: Juan Uribe, Project Manager **/RA/**
Spent Fuel Licensing Branch
Division of Spent Fuel Management
Office of Nuclear Material Safety
and Safeguards

SUBJECT: SUMMARY OF OCTOBER 25, 2017, MEETING WITH AREVA
FEDERAL SERVICES, LLC TO DISCUSS THE UPCOMING
SUBMITTAL TO AMEND THE BEA RESEARCH REACTOR PACKAGE
(EPID L-2017-LRM-0049)

Background

On September 25, 2017, a teleconference call was held in Rockville, MD, between representatives of Areva Federal Services, LLC (Areva), and the U.S. Nuclear Regulatory Commission (NRC) to discuss the upcoming submittal of the proposed amendment to the Certificate of Compliance (CoC) 9341. This CoC is associated with the BEA Research Reactor (BRR) and corresponds to NRC docket No. 71-9341. The list of meeting attendees is provided in Enclosure 1.

The meeting was noticed on October 13, 2017 (Agencywide Documents Access and Management System Accession No. ML17286A805).

Discussion

The meeting followed the agenda described in the aforementioned public meeting notice. Areva led the discussion of the proposed changes with a presentation titled "Transport of Co-60 Production Targets in the BRR Package," which is included in Enclosure 2. In general, the presentation provided background information, an overview of the proposed changes, and the submittal schedule.

The first portion of the meeting focused on background information of the approved BRR package, including design and main characteristics. The second portion focused on the proposed changes to be implemented by Areva. The licensee is proposing to add Cobalt-60 (Co-60) to the approved payload. Originally, the BRR package was built to transport spent research reactor fuel, Advanced Test Reactor fuel from Idaho National Laboratory, and Training, Research, Isotopes and General Atomics fuel types. When adding a new Co-60 target, Areva stated that the standard approved payload of six targets could be combined to include the

original and the new design targets, while still maintaining the maximum limits for heat load, as described in the CoC.

Areva also discussed design details of the proposed new targets. The new design targets will essentially consist of a thick wall aluminum tube with axial holes that contain the stacks of irradiated pellets. The new targets have been redesigned to exclude water and to more securely hold the irradiated pellets. In addition, other conservative measures proposed by Areva is to place all targets (old and new) into a target holder for transport. This holder will allow water to drain but retain small pellets in case of a release. Some background information related to failure rates was discussed by Areva in the slides, and was referenced to the Target Failure Analysis of 2012. The NRC staff indicated that receiving this report as part of the application would provide a more complete submittal, as this served as the basis for some of the conclusions in the application. Finally, the licensee stated that due to the robust design of the basket and secure arrangement of the target holders, reconfiguration of the payload will not occur under normal conditions of transport or the hypothetical accident conditions.

The last portion of the meeting consisted of a discussion of the proposed schedule. Areva plans to submit the proposed SAR amendment by mid-January 2018 and requested a CoC issuance by September 2018. The NRC staff noted that this is considered an expedited review request given the normal allocated time for typical reviews.

After Areva and NRC representatives completed the discussion in the first portion of the meeting, the meeting was opened to public comments or questions for the NRC. No members of the public participated in the meeting and therefore, public comments were not received.

Action Items/Next Steps

Areva plans to submit the application to amend the BRR package by mid-January 2018.

Docket Nos. 71-9341
EPID L-2017-LRM-0049

Enclosures:

1. Meeting Attendees
2. Handout – Areva Presentation on
Proposed amendment to the BRR package

SUBJECT: SUMMARY OF OCTOBER 25, 2017, MEETING WITH AREVA FEDERAL SERVICES, LLC TO DISCUSS THE UPCOMING SUBMITTAL TO AMEND THE BEA RESEARCH REACTOR PACKAGE, DATED NOVEMBER 7, 2017

DISTRIBUTION: NRC Attendees

(EPID L-2017-LRM-0049)

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ADAMS Package No.: ML17312A214 ADAMS Accession No.: ML17312A215
Enclosure 2 Accession No.: ML17312A217

OFC	NMSS/DSFM	NMSS/DSFM	NMSS/DSFM	NMSS/DSFM
NAME	JUribe	BWhite	SFiguroa	JMcKirgan
DATE	11/6/2017	11/5/17	11/6/2017	11/7/17

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Public Meeting – Category 1
Between the NRC and Areva Federal Services, LLC
10/25/2017

Meeting Attendees

Name	Organization	Title
Juan Uribe	NRC	Project Manager
Bernard White	NRC	Project Manager
Daniel Forsyth	NRC	Nuclear Engineer
Steve Everard	NRC	Structural Engineer
Philip Noss	AREVA Federal Services LLC	Licensing Manager
Richard Smith	AREVA Federal Services LLC	Project Manager
Gannon Johnson	AREVA Federal Services LLC	Thermal Analyst
Eric Gonsiorowski	AREVA Federal Services LLC	Shielding Analyst
Carla Dwight	Idaho National Lab	Deputy Director, Space Nuclear Power and Isotope Technologies Division
Ken Wahlquist	Idaho National Lab	Radioisotope Power Systems

Meeting Slides
Public Meeting – Category 1
Between the NRC and Areva Federal Services, LLC
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